



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Date: January 5, 2005

Express Mail ER 740498251 US

By: Patricia Wiggins

Patricia Wiggins

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

REVOCATION AND SUBSTITUTION OF POWER OF ATTORNEY

Dear Sir:

I hereby revoke all previous powers of attorney or authorizations of agent given in the patent applications listed below and any continuations or divisionals. I hereby appoint All Practitioners at Customer Number 08933 to prosecute all applications listed below and any continuations or divisionals and to transact all business in the United States Patent and Trademark Office connected therewith.

I hereby appoint the following additional attorneys, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Chien Chou
Simon Lu

Registration Number: 41,672
Registration Number: 51,974



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Please change the correspondence address for all the applications listed below to:

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All telephone calls for all applications listed below should be addressed to Steven E. Koffs at (215) 979-1250

CERTIFICATE UNDER 37 CFR 3.73(b)

Taiwan Semiconductor Manufacturing Co., Ltd., a Corporation
(Name of Assignee)(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent applications identified below by virtue of an assignment from the inventor(s) of the patent applications:

| Serial No. | Filing Date | Assignment Information |
|------------|-------------|---|
| 09/443,429 | 11/19/1999 | Assignment recorded in the Patent and Trademark Office at Reel 010403, Frame 0775 |
| 09/526,133 | 03/15/2000 | Assignment recorded in the Patent and Trademark Office at Reel 010681, Frame 0265 |
| 09/604,067 | 06/26/2000 | Assignment recorded in the Patent and Trademark Office at Reel 010934, Frame 0801 |
| 09/629,213 | 07/31/2000 | Assignment recorded in the Patent and Trademark Office at Reel 011021, Frame 0093 |
| 09/883,449 | 06/18/2001 | Assignment recorded in the Patent and Trademark Office at Reel 011918, Frame 0679 |
| 09/907,643 | 07/19/2001 | Assignment recorded in the Patent and Trademark Office at Reel 012027, Frame 0529 |
| 10/256,714 | 09/27/2002 | Assignment recorded in the Patent and Trademark Office at Reel 011429, Frame 0644 |
| 10/261,345 | 09/30/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013359, Frame 0376 |
| 10/272,082 | 10/16/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013408, Frame 0266 |
| 10,615,744 | 07/09/2003 | Assignment recorded in the Patent and Trademark Office at Reel 014299, Frame 0736 |
| 10/790,919 | 03/02/2004 | Assignment recorded in the Patent and Trademark Office at Reel 011125, Frame 0466 |
| 10/790,925 | 03/02/2004 | Assignment recorded in the Patent and Trademark Office at Reel 011125, Frame 0466 |

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| 10/798,992 | 03/12/2004 | Assignment recorded in the Patent and Trademark Office at Reel 013546, Frame 0323 |
| 10/858,020 | 06/01/2004 | Copy of Assignment attached |

The undersigned has reviewed all the documents in the chain of title of the patent applications identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 10/21/2004

By:



Name: Chien-Wei Chou

Title: Director, Intellectual Property Division